

Claims

What is claimed is:

1 1. A method of determining utilization of channel  
2 components of a computing environment, said method  
3 comprising:

4 obtaining measurement data for a selected  
5 component of a channel, said channel comprising a  
6 plurality of components; and

7 using said measurement data to determine  
8 utilization of said selected component.

1 2. The method of claim 1, wherein said obtaining  
2 comprises obtaining measurement data for multiple components  
3 of said plurality of components, and wherein said using  
4 comprises using said measurement data to determine  
5 utilization for each of said multiple components.

1 3. The method of claim 1, further comprising obtaining  
2 one or more operational characteristics of said selected  
3 component.

1 4. The method of claim 3, wherein said using further  
2 comprises employing said one or more operational  
3 characteristics to determine said utilization of said  
4 selected component.



1       10. The method of claim 1, wherein said selected  
2       component comprises one of an internal bus of said channel,  
3       a channel processor and an external link of said channel.



1        20. A method of determining utilization of channels of  
2        a computing environment, said computing environment  
3        comprising a plurality of logical partitions, and said  
4        method comprising:

11           using said measurement data to determine  
12   utilization of the channel.

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1 21. A system of determining utilization of channel  
2 components of a computing environment, said system  
3 comprising:

4 means for obtaining measurement data for a  
5 selected component of a channel, said channel  
6 comprising a plurality of components; and

7 means for using said measurement data to determine  
8 utilization of said selected component.

1 22. The system of claim 21, wherein said means for  
2 obtaining comprises means for obtaining measurement data for  
3 multiple components of said plurality of components, and  
4 wherein said means for using comprises means for using said  
5 measurement data to determine utilization for each of said  
6 multiple components.

1 23. The system of claim 21, further comprising means  
2 for obtaining one or more operational characteristics of  
3 said selected component.

1 24. The system of claim 23, wherein said means for  
2 using further comprises means for employing said one or more  
3 operational characteristics to determine said utilization of  
4 said selected component.

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1 30. The system of claim 21, wherein said selected  
2 component comprises one of an internal bus of said channel,  
3 a channel processor and an external link of said channel.

1 31. The system of claim 21, wherein the channel is  
2 associated with a logical partition of said computing  
3 environment involved in the determining utilization, and  
4 wherein the measurement data comprises data representative  
5 of use of said selected component by said logical partition.

1 32. The system of claim 31, wherein the measurement  
2 data is further representative of use of said selected  
3 component by one or more other logical partitions of said  
4 computing environment.

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1 37. The system of claim 33, wherein said means for  
2 obtaining data comprises:

3 means for obtaining one or more operational  
4 characteristics of said one or more components; and

5 means for obtaining measurement data for said one  
6 or more components, wherein said one or more  
7 operational characteristics and said measurement data  
8 are used to determine utilization of said one or more  
9 components.

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1 38. A system of determining utilization of channels of  
2 a computing environment, said computing environment  
3 comprising a plurality of logical partitions, and said  
4 system comprising:

5 means for obtaining measurement data for a  
6 channel, said measurement data being representative of  
7 use of said channel by a logical partition involved in  
8 determining the utilization and representative of use  
9 by one or more other logical partitions of said  
10 plurality of logical partitions; and

11 means for using said measurement data to determine  
12 utilization of the channel.



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- 1 40. A system of obtaining information associated with
- 2 channel components of a computing environment, said system
- 3 comprising:
- 4 a channel comprising a plurality of components;
- 5 and
- 6 at least one processor adapted to obtain data on
- 7 one or more components of said plurality of components.

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1 41. A system of determining utilization of channels of  
2 a computing environment, said computing environment  
3 comprising a plurality of logical partitions, and said  
4 system comprising:

5 at least one processor adapted to obtain  
6 measurement data for a channel, said measurement data  
7 being representative of use of said channel by a  
8 logical partition involved in determining the  
9 utilization and representative of use by one or more  
10 other logical partitions of said plurality of logical  
11 partitions; and

12 at least one processor adapted to use said  
13 measurement data to determine utilization of the  
14 channel.

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1 42. At least one program storage device readable by a  
2 machine, tangibly embodying at least one program of  
3 instructions executable by the machine to perform a method  
4 of determining utilization of channel components of a  
5 computing environment, said method comprising:

6 obtaining measurement data for a selected  
7 component of a channel, said channel comprising a  
8 plurality of components; and

9 using said measurement data to determine  
10 utilization of said selected component.

1 43. The at least one program storage device of claim  
2 42, wherein said obtaining comprises obtaining measurement  
3 data for multiple components of said plurality of  
4 components, and wherein said using comprises using said  
5 measurement data to determine utilization for each of said  
6 multiple components.

1 44. The at least one program storage device of claim  
2 42, wherein said method further comprises obtaining one or  
3 more operational characteristics of said selected component.

1 45. The at least one program storage device of claim  
2 44, wherein said using further comprises employing said one  
3 or more operational characteristics to determine said  
4 utilization of said selected component.

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1 46. The at least one program storage device of claim  
2 45, wherein said obtaining measurement data comprises  
3 obtaining said measurement data at a plurality of predefined  
4 intervals, and wherein said using comprises:

5 determining an average change in the measurement  
6 data over at least two intervals of said plurality of  
7 predefined intervals; and

8 dividing said average change by a value of at  
9 least one of said one or more operational  
10 characteristics.

1 47. The at least one program storage device of claim  
2 42, wherein said selected component comprises one of an  
3 internal bus of said channel, a channel processor and an  
4 external link of said channel.

1 48. The at least one program storage device of claim  
2 42, wherein the channel is associated with a logical  
3 partition of said computing environment involved in the  
4 determining utilization, and wherein the measurement data  
5 comprises data representative of use of said selected  
6 component by said logical partition.

1 49. The at least one program storage device of claim  
2 48, wherein the measurement data is further representative  
3 of use of said selected component by one or more other  
4 logical partitions of said computing environment.



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1 50. An article of manufacture, comprising:

2 at least one computer usable medium having  
3 computer readable program code means embodied therein  
4 for causing the obtaining of information associated  
5 with channel components of a computing environment, the  
6 computer readable program code means in the article of  
7 manufacture comprising:

8 computer readable program code means for  
9 causing a computer to select a channel within said  
10 computing environment to be monitored, said  
11 channel comprising a plurality of components; and

12 computer readable program code means for  
13 causing a computer to obtain data on one or more  
14 components of said plurality of components.

1 51. The article of manufacture of claim 50, wherein  
2 said computer readable program code means for causing a  
3 computer to obtain data comprises computer readable program  
4 code means for causing a computer to obtain one or more  
5 operational characteristics of said one or more components.

1 52. The article of manufacture of claim 50, wherein  
2 said computer readable program code means for causing a  
3 computer to obtain data comprises computer readable program  
4 code means for causing a computer to obtain measurement data  
5 usable in determining utilization of said one or more  
6 components.

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1 53. The article of manufacture of claim 50, wherein  
2 said computer readable program code means for causing a  
3 computer to obtain data comprises:

4 computer readable program code means for causing a  
5 computer to obtain one or more operational  
6 characteristics of said one or more components; and

7 computer readable program code means for causing a  
8 computer to obtain measurement data for said one or  
9 more components, wherein said one or more operational  
10 characteristics and said measurement data are used to  
11 determine utilization of said one or more components.

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1 54. At least one program storage device readable by a  
2 machine, tangibly embodying at least one program of  
3 instructions executable by the machine to perform a method  
4 of determining utilization of channels of a computing  
5 environment, said computing environment comprising a  
6 plurality of logical partitions, and said method comprising:

7 obtaining measurement data for a channel, said  
8 measurement data being representative of use of said  
9 channel by a logical partition involved in determining  
10 the utilization and representative of use by one or  
11 more other logical partitions of said plurality of  
12 logical partitions; and

13 using said measurement data to determine  
14 utilization of the channel.

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